

BORUKAYEV, R.A.; MILLER, Ye.Ye.

Characteristics of volcanism and cycles of igneous activity.  
Trudy Inst. geol. nauk AN Kazakh. SSR 13:251-256 '65.  
(MIRA 19:1)

BORUKAYEV, R.A., akademik; KAYUPOV, A.K., doktor geologo-mineralogicheskikh nauk; LYAPICHEV, G.F., kand.geologo-mineral. nauk; MIRCHHNICHENKO, L.A., kand. geologo-mineral.nauk

Tectonic and metallogenic regionalization of eastern Kazakhstan.  
Vest. AN Kazakh. SSR 21 no.11:14-26 N '65.

(MIRA 16:12)

1. Akademiya nauk Kazakhskoy SSR (for Borukayev).

BERGUZAYEV, R.A.; YESENOV, Sh. Ye.; KAYUPOV, A.K.; ABDUL'N, A.A.

Problems of geological science and practice in Kazakhstan.  
Izv. AN Kazakh. SSSR Ser. geol. 22 no.6:3-11 N-D '65  
(MIRA 19:1)

I. Institut geologicheskikh nauk imeni K.I. Satpayeva AN  
KazSSR, Alma-Ata, i Ministerstvo geologii KazSSR, Alma-Ata.

BORUKAYEV, R. K.

"The Effect of Experimental Staphylococcal Intoxication and Infection on the Higher Nervous Activity of Animals." Cand Med Sci, Inst of Higher Nervous Activity, Acad Sci USSR, 3 Oct 54. (V', 24 Sep 54)

SO: Sun 432, 29 Mar 55

T-10

USSR/Human and Animal Physiology - Nervous System.  
Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32212

Author : Borukayev, R.K.

Inst : -  
Title : Formation of a Conditioned Reflex to a Compound Stimulator  
in White Rats and Its Impairment Under the Influence of  
Intoxication.

Orig Pub : Tr. In-ta vyssh. nervn. deyat-sti AN SSSR, ser. patofiziol  
1957, 3, 58-67.

Abstract : In 5 white rats on food reinforcement, a motor reaction  
was developed to a simultaneous compound of stimuli (2 of  
sound and 1 of light) and the components of the compound  
were securely differentiated. Even in the first hours  
after the subcutaneous introduction of staphylococcus  
toxin (4 ml/kg), impairments of the HNA were noted (full  
inhibition of the conditioned reactions, a drop in their

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USSR/Human and Animal Physiology - Nervous System.  
Higher Nervous Activity. Behavior.

T-10

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32216

Author : Borukayev, R.K.

Inst Title : On Changes of Higher Nervous Activity Caused by Experimental Staphylococcus Intoxication and Infection in White Rats.

Orig Pub : Tr. in-ta vyssh. nervn. deyat-sti AN SSSR, ser. patofiziol., 1957, 3, 97-114.

Abstract : The influence on the HNA of rats of a staphylococcus infection (20 billion microbe bodies of golden staphylococci intramuscularly) and of a staphylococcus intoxication (introduction of standard toxin 4 ml/kg) was compared. In the first case (68 rats), there were observed: temporary increase of cortical excitability, which preceded a deep protective inhibition, and one deeper and more sharply

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USSR/Human and Animal Physiology - Nervous System.  
Higher Nervous Activity. Behavior.

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Abs Jour : Ref Zhur - Biol., No 7, 1958, 32216

expressed than in the second case (10 rats); a period of inhibition of reflex reactions; a period of increase of cortical excitability in the process of the restoration of the HNA. In the course of normalization of the functions of the CNS in both cases, the internal inhibition was restored in the latter case.

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T-10

USSR/Human and Animal Physiology - Nervous System.  
Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur - Biol., No 7, 1956, 32223  
Author : Borukayev, R.K.  
Inst Title : Therapy by Long Sleep of Impairments of Higher Nervous Activity Caused by Staphylococcus Intoxication in White Rats.  
Orig Pub : Tr. in-ta vyssh. nervn. deyat-sti AN SSSR, ser. patofiziol., 1957, 3, 217-226.  
Abstract : The influence was studied of three-day medicated sleep (sodium amytal 1 mg/g per os) on the condition of HNA impaired by staphylococcus intoxication (toxin 4 ml/kg). Medicated sleep contributed to a faster (9-15 days) restoration of normal activity of the CNS in comparison with control animals (23-43 days). Functions of the CNS

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USSR/Human and Animal Physiology - Nervous System.  
Higher Nervous Activity. Behavior.

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Abs Jour : Ref Zhur - Biol., No 7, 1958, 32223

different in evolutionary respects were restored in  
rats subjected to treatment in the same sequence as  
the controls.

Card 2/2

GORSHENEVA, L.S.; KHOZAK, L.Ye.; BORUKAYEV, R.K.

Conference on the experimental pathophysiology and therapy of higher nervous activity in animals. Zhur.vys.nerv.deiat. 8 no.2:299-302 '58.  
(MIRA 13:1)  
(NERVOUS SYSTEM--DISEASES)

BORUKAYEV, R.K.; ARTYUKHINA, N.I.

Disorder of the higher nervous activity and morphological changes in the central nervous system in adrenalectomized animals. Probl. endok. i gorm. 5 no.3:17-25 My-Je '59. (MIRA 12:9)

1. Iz laboratorii srovnitel'noy patofiziologii vysshey nervnoy deyatel'nosti (zav. - prof.L.I.Kotlyarevskiy) i kabineta morfologii tsentral'noy nervnoy sistemy (zav. - prof.M.M.Aleksandrovskaya) Instituta vysshey nervnoy deyatel'nosti Akademii nauk SSSR (dir. - prof.L.G.Voronin).

(CENTRAL NERVOUS SYSTEM, physiol.

higher nerv. activity, eff. of adrenalectomy  
in rats (Rus))

(CEREBRAL CORTEX, physiol.

eff. of adrenalectomy in rats (Rus))

(ADRENALECTOMY, eff.

on cerebral cortex funct. & higher nerv.  
activity in rats (Rus))

BORUKAYEV, R.K.

Occurrence of anaphylaxis in intact and in adrenalectomized  
rats. Trudy Inst.vys.nerv.deiat.Ser.patofiziol. 6:85-92  
'59. (MIRA 12:10)

(ANAPHYLAXIS)

BORUKAYEV, R.K.

Changes in the higher nervous activity of animals (white rats)  
during sensitization and following the resolving dose of antigen.  
Trudy Inst.vys.nerv.deiat.Ser.patofiziol. 6:93-109 '59.

(MIRA 12:10)

(NERVOUS SYSTEM)

(ANAPHYLAXIS)

BORUKAYEV, R.K. (Moskva)

Relationship between respiratory and reflex components of  
conditioned food reflexes under various pathological  
conditions. Pat. fiziol. i eskp. terap. 4 no. 6:69-70  
N-D '60. (MIRA 14:2)

1. Iz laboratorii srovnitel'noy patofiziologii i eksperimental'noy  
terapii vysshey nervnoy deyatel'nosti zhivotnykh (zav. - prof.  
L.I. Kotlyarevskiy) Instituta vysshey nervnoy deyatel'nosti  
(direktor - prof.V.S. Rusinov).  
(CONDITIONED RESPONSE)

BORUKAYEV, R.K.

Experimental neuroses in white rats. Zhur. vys. nerv. deiat. 9 no.6:  
922-930 N-D '60. (MIRA 13:9)

1. Laboratory of Comparative Pathophysiology and Experimental Therapy  
of Higher Nervous Activity of Animals, Institute of Higher Nervous  
Activity, U.S.S.R. Academy of Sciences, Moscow.  
(NEUROSES) (CONDITIONED RESPONSE)

BORUKAYEV, R.K.

Investigating conditioned food reflexes by applying electric  
excitation to the skin as a feeding signal and under defensive  
experimental conditions. Trudy Inst. vys. nerv. deiat. Ser.  
patofiziolog. no.9:54-62 '61. (MIRA 15:4)  
(CONDITIONED RESPONSE)

BORUKAYEV, R.K.

Intrrelations of changed-over conditioned connections during changes  
in the functional state of the cerebral cortex in dogs. Trudy Inst.  
vys. nerv. deiat. Ser. patofiziol. no.9:63-72 '61. (MIRA 15:4)  
(CONDITIONED RESPONSE)

BORUKAYEV, R.K.

Signs of anaphylaxis in adrenalectomized rats with functional hypertension of nervous processes. Trudy Inst. vys. nerv. deiat. Ser. patofiziolog. no.9:111-115 '61. (MIRA 15:4)  
(ANAPHYLAXIS) (ADRENAL GLANDS)

BORUKAYEV, R.K.

Characteristics of the cardiac component of biologically different types of reactions in cortical switching. Zhur. vys. nerv. deiat. 12 no.4:695-703 Jl-Ag '62. (MIRA 17:11)

1. Institute of Higher Nervous Activity and Neurophysiology,  
U.S.S.R. Academy of Sciences, Moscow.

MONIAVA, E.S.; BORUKAYEV, R.K.

Electric cortical activity following a lesion of the thalamic  
specific (relay) nuclei. Zhur. vys. nerv. deiat. 15 no.6:  
1047-1054 N-D '65. (MIRA 19:1)

1. Institut fiziologii AN GruzSSR i Institut vysshey nervnoy  
deyatelnosti i neyrofiziologii AN SSSR. Submitted April 20,  
1965.

KURDINA, R.M.; BORUKAYEVA, M.R.

Effect of fillers on the intensity of microbiological processes.  
Trudy Inst.mikrobiol.i virus.AN Kazkh.SSR 6:174-179 '62.

(MIRA 15:8)

(BACTERIOLGOY--CULTURES AND CULTURE MEDIA) (ADSORBENTS)

BORUKAYEVA, M.R.

Effect of fractional introduction of nutritive components of media  
on the intensity of fermentation and growth of yeasts. Trudy Inst.  
mikrobiol.i virus.AN Kazkah.SSR 6:180-184 '62. (MIRA 15:8)  
(YEAST) (FERMENTATION)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

AZBEKOV, K. R.; BIRUKAYEVA, M.R.

Fermitan stratigraphy of the southwestern slopes of the Dzungari Alatau. Vest. AN Kazakh. SSR 21 no. 9:46-50 S '65.  
(MIRA 18:9)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

TROYAN, A., dotsent (L'vov); BORUKH, I., assistant (L'vov)

Loss norms in tomato weight. Sov. torg. 37 no.10:35-37  
0 '63. (MIRA 17:1)

1. L'vovskiy torgovo-ekonomicheskiy institut TSentral'nogo soyuza potrebitel'skikh obshchestv SSSR (for Troyan).
2. Kafedra tovarovedeniya prodrovol'stvennykh tovarov TSentral'nogo soyuza potrebitel'skikh obshchestv SSSR (for Borukh).

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

TROYAN, A.V., kand. tekhn. nauk; BORUKH, I.F. (L'vov)

Wild berries of the Carpathians. Priroda 54 no.8:126-127 Ag '65.  
(MIRA 18:8)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

URKIN, A.V.; BOBUKH, I.P.

Minerals of the Carpathian Mountains as a source of minerals.  
Vop. pit. 24 no.234-65' M-1:400,000.

(MIRA 33:8)

L. Katedra teorii vedeniya proizvodstvennykh tovarov pri vuzakh  
torgovli - s'ezd nauchno-tekhnicheskogo obshchestva.

TROYAN, O.V.; BORUKH, I.F.

Wild berries of the Carpathian Mountains as valuable  
raw material for the canning industry. Khar. prom.  
no.4: 39-40 O-D '65. (MIRA 18:12)

L 11580-66 ENT(m)/EWP(t)/EWP(b)/EWA(h) JD  
ACC-NR: AP6000373 SOURCE CODE: UR/0286/65/000/021/0091/0091

AUTHORS: Shaposhnikov, A. P.; Zolotov, I. N.; Suvareva, V. S.; Borukhin, B. Ya.;  
Makarova, L. N.; Buchenkov, F. I.; Markov, F. F.

ORG: none

TITLE: Method for correcting the chemical composition of fused metallurgical slags.  
Class 80, No. 176197

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 91

TOPIC TAGS: slag, synthetic slag, metallurgical process, metallurgy

ABSTRACT: This Author Certificate presents a method for adjusting the chemical composition of fused metallurgical slags by introducing additives. To conserve time and energy and to obtain a homogeneous melt from the mixture of fused slag and additives, igneous rocks and industrial waste materials are used as additives. The latter are selected so that their fusion temperature is below the temperature of the fused slag. Gabbro, diabase, basalt, andesite, power plant ashes, and similar materials are used as additives. They are crushed and preheated up to their respective softening points prior to their introduction to the fused slag. The amount of additives is 50% by wt. of the total mass of the mixture.

SUB CODE: 11/ SUBM DATE: 19Jun62

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UDC: 669.054.82:669.046.58

BORUKHMAN, M.T., konstruktor selenovykh vypryamiteley.

Intricate device for current leakage protection. Ugol' Ukr.  
3 no.1:38 Ja '59. (MIRA 12:1)  
(Electric currents, Leakage)

BORUKHMAN, V A.

PHASE I BOOK EXPLOITATION 1001

Opyt ekspluatatsii vysokovol'tnykh setey Mosenergo' sbornik statey  
(Operating Experience of the Mosenergo High-voltage Networks,  
Collection of Articles) Moscow, Gosenergoizdat, 1957, 79 p.  
4,000 copies printed.

Gen. Ed.: Klement'yev, D.P., and Baumsteyn, I.A.; Ed.:  
Alekseyev, S.V.; Tech. Ed.: Medvedev, L.Ya.

PURPOSE: This collection of articles is intended for engineers and technicians engaged in the operation and repair of high-voltage equipment of power systems. It may also be useful to designers of H-V installations.

COVERAGE: The reports are the result of experience gained in the operation, preventive maintenance, repair and development of electrical equipment in substations and H-V networks. They also contain the first account of the application of telemechanics in network regions of Mosenergo (Moscow Regional Power System Administration). There are no references.

Card 1/7

Operating Experience (Cont.) 1001

TABLE OF CONTENTS:

Introduction 3

Smirnov, V. S., Engineer. Improvement in the Construction of  
110-kv Air Circuit Breakers Made in the USSR 5  
The author states that frequent failures in circuit  
breaker operation occur in Soviet H-V networks, and in  
the Mosenergo network in particular, because of the  
faulty construction of these breakers, owing to the lack  
of pneumatic blocking and poor control arrangement.  
These two defects were corrected in 1955 in the Mosenergo  
H-V network.

Trukhmanov, I. S., Engineer. Operating Experience With Air  
Compressor Units of Substations Equipped With Air Circuit  
Breakers 12

The author describes 3 types of air compressor units  
produced for the last 7 years by Mosenergo. He lists all  
defects of these compressors and makes recommendations  
for their removal.

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- |   |      |
|---|------|
| Operating Experience (Cont.)  | 1001 |
| Yurenkov, V. D., Candidate of Technical Sciences. Experience in Preventive Maintenance and the Use of Insulation for Equipment in 220-kv Substations  | 22   |
| The author describes the methods employed in preventive testing of separate pieces of equipment at one of the 220-kv Mosenergo substations. This substation was equipped with apparatus of foreign make and put into operation in 1949. The author sums up the experience gained and enumerates the defects of insulation and the methods employed to improve operating conditions. |      |
| Korolev, A. I., Engineer. Testing the Insulation of Secondary Circuits With Stepped-up D-C and A-C Voltages   | 31   |
| The author presents the results of tests carried out by the Mosenergo H-V Laboratory and compares the two methods employed: 1,000 volts a-c and 2,000 volts d-c for 1 minute. He finds that test voltages may be stepped up to 1500 volts a-c and 2,500 volts d-c.  |      |

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- Operating Experience (Cont.) 1001
- Borukhman, V. A., and Lebedev, V. G., [Deceased], Engineers.  
Experience in Substation Telemechanization in Areas of  
the Mosenergo H-V Network 33
- Mosenergo has recently telemechanized 3 regional H-V  
networks comprising 21 substations. The authors describe  
the level of telemechanization achieved and discuss  
problems connected with the telemechanization of  
synchronous condensers. They describe the basic com-  
ponents required for telemechanization and explain their  
operation.
- Kuznetsov, A. I., Engineer. Experience in the Use of Storage  
Batteries 38
- The author considers the present set of instructions con-  
cerning the operation and maintenance of storage batteries  
to be out of date and suggests that they be rewritten on  
the basis of experience gained in this field. He suggests  
changing the procedure for charging storage batteries,  
replacing the inadequate mercury arc rectifiers of the URV-1  
and URV-3 types and improving the operating conditions of  
the batteries.

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Operating Experience (Cont.)

1001

Aptov, I. S., Engineer. Regeneration of Transformer Oil  
Having High Dielectric Losses

49

The author claims that in recent years cases of quality deterioration of transformer oil have been observed in Soviet electric power systems. This deterioration is due to an increase of the dielectric loss-angle of oil. He describes the percolation method of regenerating transformer oil and compares the results obtained with the results of other methods.

Aptov, I.S., Engineer. Quantitative Determination of Low-Molecular Water-Soluble Acids Contained in Transformer Oil  
The author briefly describes the above method.

51

Yakobson, I. A., Engineer. New Pressed Line Connectors  
The author lists the disadvantages of conventional line connectors (flat PP-type and oval, made by Armset'). He describes the new "pressed" type of connector produced by Mosenergo and the portable MGP-3 hydraulic press

52

Card 5/7

## Operating Experience (Cont.)

1001

suitable for splicing wires from 16 sq. mm. to 240 sq. mm.  
He explains in detail the procedure for splicing conductors by this method.

Grinev, S. M., Engineer. Safety Factors for Conductor Strength During Repairs	60
The author gives data based on experience and on official recommendations.	
Vinokurov, L. V., Engineer. Vibration of Wire and Stranded Cable Transmission Lines and Control Measures	62
The author explains the advantages of a new type of antivibration device, the so-called "vibration absorber", and compares it with the old types. The 7-year trial period of 90,000 vibration absorbers of the type described proved their superiority.	
Yurenkov, V. D., Candidate of Technical Sciences, and Yakobson, I. A., Engineer. Safety Illumination of High Supporting Structures for H-V Transmission Lines	65

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Operating Experience (Cont.)

1001

The authors describe methods of illuminating supporting structures so as to comply with safety regulations of the USSR Civil Air Fleet. They also discuss the calculation, construction, installation and maintenance of the lighting arrangements.

Yurikov, P. A., Engineer. Measures for Protecting Transmission Line Crossings Against Atmospheric Overvoltages 75  
The author explains the regulations and how they should be applied in practice.

Batkhon, I. S., Engineer. Calculation of Forces Required for Lifting Supporting Structures by the Nomographic Method 77  
The author explains the theory of this method and its practical application.

AVAILABLE: Library of Congress

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1-13-59

TRUSHLYAKOV, V.P.; BEREZHINSKIY, A.I.; SPIVAK, M.Ya.; FINOGEYEV, I.A.;  
LIPETS, A.U.; AYZEN, B.G.; KOSTOVETSKIY, D.L.; BOLDZHI, K.I.;  
YAMPOL'SKIY, S.L.; FEDOTOV, D.K.; KIRILLOV, I.I.; OSHEROV, S.Ya.;  
TYSIN, V.A.; OGIOBLIN, G.A.; KANAYEV, A.A.; BULEGA, S.S.;  
BO RUKHMAN, V.A.; IOEL'SON, V.I.

Inventicns. Energ. i elektrotekh. prom. no.3:48-49 Jl-S '64.  
(MIRA 17:11)

NIKONOV, S.V.; BORUKHOV, B.G.

Integral sensitivity of silver photocells. Trudy Inst. seism.  
stroi. i seism. 12:121-126 '64. (MIRA 18:5)

NIKONOV, S.V.; ZAYNASHEV, R.Z.; BORUKHOV, B.G.

Inertia of photoconductive cells under low lighting. Trudy  
Inst. seism. stroi. i seism. 12:127-132 '64.

(MIRA 18:5)

BORUHOV, L.

2

Doruhov, L. The linear integral equation with an almost periodic kernel and a free member. Doklady Akad. Nauk SSSR (N.S.) 57, 647-649 (1947). (Russian)

The author studies the equation

$$\varphi(x) = f(x) + \lambda L_x [K(x, s)\varphi(s)],$$

where  $L_x [\dots] = \lim_{T \rightarrow \infty} \int_0^T K(x, s)\varphi(s)ds$ . It is assumed that  $f$  is almost periodic in the sense of Bohr ( $-\infty < x < +\infty$ ) and that  $K(x, s)$  is almost periodic in  $(x, s)$ . It is shown that the Fredholm theory holds. W. J. Trjitzinsky.

Source: Mathematical Reviews,

Vol 9 No. 7

Signed

Sci-Bs. Inst. Mechanics & Physics Saratov State U.

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CIA-RDP86-00513R000206530006-9

BORUKHOV, M.Yu.

Using intermittent regulators for automatic water-level regulation  
in large irrigation canals. Izv. AN Uz. SSR. Ser. tekhn. nauk no.1:13-23  
'57.  
(Irrigation canals and flumes) (MIRA 11:?)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

BORUKHOV, M.Yu.

Automatic water level control in large canals. Dokl. AN Uz. SSR  
no.5:41-43 '57.  
(MIRA 11:5)

1.Institut energetiki AN UzSSR. Predstavлено акад. AN UzSSR Kh.F.  
Fazylovym.

(Automatic control)  
(Canals)

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CIA-RDP86-00513R000206530006-9

BORUKHOV, M.Yu.

Problem of automatic control of water consumption in main irrigation canals. Trudy Inst.energ.AN Uz.SSR no.10:163-174 '57. (MIRA 10:11)  
(Irrigation canals and flumes)

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CIA-RDP86-00513R000206530006-9"

~~SECRET//NOFORN~~

BORUKHOV, M.Yu., Cand Tech Sci -- (diss) "Automatic  
regulation<sup>no</sup> of water levels in large ~~canal~~ irrigation  
canals." Tashkent, Pub House of Acad Sci UzSSR, 1958  
16 pp with graphs (Acad Sci UzSSR. Inst of Power  
Engineering) 150 copies (KL, 28-58, 105)

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DOKUKHOV, M. Yu.

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PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashov; G. S. Ikramova; A. Ye. Kiv; Yo. N. Lebanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Card 1760

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Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhaneva.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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## Transactions of the Tashkent (Cont.)

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

## TABLE OF CONTENTS:

RADIOACTIVE ISOTOPES AND NUCLEAR RADIATION  
IN ENGINEERING AND GEOLOGY

Lobanov, Ye. M. [Institut yadernoy fiziki UzSSR - Institute of Nuclear Physics AS USSR]. Application of Radioactive Isotopes and Nuclear Radiation in Uzbekistan

7

Taksar, I. M., and V. A. Yanuchkovskiy [Institut fiziki AN Latv SSR - Institute of Physics AS Latvian SSR]. Problems of the Typification of Automatic-Control Apparatus Based on the Use of Radioactive Isotopes

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Zhernovoy, A. I., and G. D. Latyshev [Institut yadernoy fiziki AN KazSSR]. Institute of Nuclear Physics AS KazSSR]. Magnetic Fluid Flowmeter	17
Zhernovoy, A. I., and G. D. Latyshev [Institute of Nuclear Physics AS KazSSR]. Use of a Nuclear Magnetic Resonance for Determining the Actual Volume of a Stream of Fluid at a Pipe Section With a Variable Diameter	20
Borukhov, M. Yu., and V. N. Ivashev [Institute of Nuclear Physics AS UzSSR]. The Problem of Measuring the Instanta- neous Values of the Flow of Materials Transported by Pneumatic or Hydraulic Means	22
Borukhov, M. Yu., A. T. Lebedev, and U. Akbarov [Institute of Nuclear Physics AS UzSSR]. Principle of Automation of a Two- Stage Cycle of Ore Crushing and Classification	25

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Transactions of the Tashkent (Cont.) SOV/5410

Borukhov, M. Yu., and A. T. Lebedev [Institute of Nuclear Physics AS UzSSR]. A Unified Radioactive Isodromic Regulator (URIR) 29

Borukhov, M. Yu., and B. K. Mal'tsev [Institute of Nuclear Physics AS UzSSR]. Experimental Application of High-Sensitivity Gamma-Relay 32

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Snisarenko, A., Z. Tarasova, Ye. Nepomnyashchiy, and V. Novopol'skiy [Nauchno-issledovatel'skiy institut shchinoj promyshlennosti-scientific Research Institute of the Tire Industry]. Determination of the Wear of Car Tires by Means of Isotopes  $^{30}TL$  43

Arkhangel'skiy, A. A., and G. D. Latyshev [Institute of Nuclear

Card 5/20

BORUKHOV, M.YU.

137

PHASE I BOOK EXPLOITATION

SOV/5486

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniy v narodnoye khozyaystvo SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy soveshchaniya v 4 tomakh. t. 1: Obshchiye voprosy primeneniya izotopov, pribory s istochnikami radioaktivnykh izlucheniy, radiatsionnaya khimiya, khimicheskaya i neftepererabatyvayushchaya promyshlennost' (Radioactive Isotopes and Nuclear Radiations in the National Economy of the USSR; Transactions of the Symposium in 4 Volumes. v. 1: General Problems in the Utilization of Isotopes; Instruments With Sources of Radioactive Radiation, Radiation Chemistry; the Chemical and Petroleum-Refining Industry) Moscow, Gostoptekhizdat, 1961. 340 p. 4,140 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tehnicheskiy komitet Soveta Ministrov SSSR, and Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii.

Ed. (Title page): N.A. Petrov, L.I. Petrenko and P.S. Savitskiy; Eds. of this Vol.: L.I. Petrenko, P.S. Savitskiy, V.I. Sinitzin, Ya. M. Kolotyrkin, N.P. Syrkus and R.F. Romm; Executive Eds.: Ye. S. Levina and B. F. Titeskaya; Tech. Ed.: E.A. Mukhina.

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Radioactive Isotopes (Cont.)

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137

PURPOSE: The book is intended for technical personnel concerned with problems of application of radioactive isotopes and nuclear radiation in all branches of the Soviet economy.

COVERAGE: An All-Union Conference on problems in the introduction of radioactive isotopes and nuclear radiation into the national economy of the Soviet Union took place in Riga on 12-16 April 1960. The Conference was sponsored by: the Gosudarstvennyy nauchno-tehnicheskiy komitet Soveta Ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers, USSR); Glavnoye upravleniye po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Main Administration for the Utilization of Atomic Energy of the Council of Ministers, USSR); Academy of Sciences, USSR; Gosplan USSR; Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers, USSR, for Automation and Machine Building) and the Council of Ministers of the Latvian SSR. The transactions of this Conference are published in four volumes. Volume I contains articles on the following subjects: the general problems of the Conference topics; the state and prospects of development of radiation chemistry; and results and prospects of applying radioactive isotopes and nuclear radiation in the petroleum refining and chemical industries. Problems of designing and manufacturing instruments which contain sources of radioactive radiation and are used for checking and automation of technological processes are examined, along with problems of accident prevention in their use. No personalities are mentioned. References accompany some of the articles.

Card 2/12

## Radioactive Isotopes (Cont.)

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CHEMICAL AND PETROLEUM DISTILLING INDUSTRY

- Borukhov, M. Yu., V. Ts. Ivashov, and V.F. Kleymenov.  
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Measurement of Small Deviations in the Concentration of  
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- Veksler, M.A., K.S. Furman, and G.A. Mukhin. Prospects of  
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Synthesis Industry 257
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Materials of Semiconductor Production 267
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of a Radioactive Density Meter Used for Checking Successive Pumping  
of Petroleum Products 274

S/194/62/000/001/009/065  
D201/D305

AUTHORS: Borukhov, M. Yu. and Mal'tsev, B. K.

TITLE: Practical applications of high-sensitive gamma-relays

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 1, 1962, abstract 1-2-8sh (Tr. Tashkentsk. kon-  
ferentsii po mirn. ispol'zovaniyu atomn. energii. T2  
Tashkent, AN UzSSR, 1960, 32-36)

TEXT: The principle of a gamma-relay is based on the property of  
absorption of radioactivity by a medium. The gamma-relay is used  
for the level control of loose materials, for locating the cable  
joint after vulcanization of the sheath and for controlling the  
process of hydraulic dust removal from the ore during its belt  
transportation to the crusher. 3 figures. /<sup>✓</sup>Abstracter's note:  
Complete translation./

Card 1/1

S/081/62/000/004/036/087  
B156/B138

AUTHORS:

Borukhov, M. Yu., Ivashev, V. Ts., Kleymenov, V. F.

TITLE:

A sensing element for the continuous measurement of small deviations in liquid solution concentration using radioactive radiation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1962, 314, abstract 4I205 (Sb. "Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR. v. I". M., Gostoptekhizdat, 1961, 253 - 256)

TEXT: The sensitive element of this instrument for sensing small deviations in concentration, in which a temperature correction is automatically introduced, consists of a hydrometer and a thermometer in one unit (i. e., the hydrometer tube is filled with the thermometric liquid, mercury or alcohol). The parameters of the sensitive element are such that the linear values of the hydrometer immersion depth and the height to which the liquid has risen in the tube are equal over a wide range of temperatures. Consequently the height of the thermometric liquid above the level of the solution, in which the hydrometer is

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A sensing element for the...

S/081/62/000/004/036/087  
B156/B158

immersed, depends solely on the concentration of the solution. The radioactive isotope floats on the surface of the thermometric liquid, and its radiations are received by pulse counters connected to an electronic unit. The output from the electronic unit is connected to the concentration indicator and a signal device. The measurement system may be of relay or proportional type, depending on the number of counters and the way in which they are installed. An overflow is used to ensure that the liquid being measured is at a constant level. Formulae are given for calculating the volume and weight of thermometric liquid. [Abstracter's note: Complete translation.]

Card 2/2

BORUKHOV, M. Yu., BAKULYUK, A. P., IVASHEV, V. N., and TSUY, T. G.

"New Types of Radioactive Isotope Relays and Level Gauges"

paper presented at the All-Union Seminar on the Application of  
Radioactive Isotopes in Measurements and Instrument Building,  
Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

BORUKHOV, M. Yu., VAFNIK, V. N.

"Radioisotope Gauges in Systems of Automatic Regulation"

paper presented at the All-Union Seminar on the Application of  
Radioactive Isotopes in Measurements and Instrument Building,  
Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

I. 12249-63

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S/271/63/000/004/021/045

52

AUTHOR: Borukhov, M. Yu. and Vapnik, V. N.TITLE: Radioisotopic pickups in automatic control systems

PERIODICAL: Referativnyj zhurnal, Avtomatika, telemekhanika i vychislitel'naya no. 4, 1963, 53, abstract 4A336 (Vopr. sovrem. fiz. i matem.; Tashkent, ANUzSSR, 1962, 42-64)

TEXT: The question of using radioisotopic means of control and signalling in continuous regulation circuits is examined. Of great importance is the correct selection of the type of industrial regulator and its setting, to guarantee the maximum degree of stability (this topic concerns most of the article). Using mathematical tools, the authors investigate the following questions: regulators guaranteeing stability of the process; the special case of tuning a proportional-plus-integral controller in a system; the tuning of a system with such controllers; the choice of type of regulator and its tuning; the question of the existence of tunings for any values of time delay. The investigation of a number of the questions studied is accompanied by the solution of individual examples. It is indicated that the proposed method of choosing type and tuning of a regulator according to maximum degree of stability can be applied not only to systems consisting of a

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Radioisotopic pickups in ....

single-capacity or integrating link, an inertial pickup and one of the regulated types of regulators; and also to any other systems. There are 9 illustrations and a bibliography of 5 items. P. M.

[Abstracter's note: Complete translation]

bm/ar  
Card 2/2

S/271/63/000/003/005/049  
A060/A126

AUTHORS: Borukhov, M.Yu., Vakulyuk, A.P., Ivashev, V.N., Tsot, T.G.

TITLE: New types of radio-isotope relays and level indicators

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 3, 1963, 28, abstract 3A153 (In collection "Vopr. sovrem. fiz. i matem.", Tashkent, AN UzSSR, 1962, 65 - 77)

TEXT: The paper describes new relay networks developed at the AN UzSSR, which make it possible to extend considerably the domain of relay application, in particular giving the means for determining the deviation of a parameter in either direction from a specified value, for maintaining a prespecified relationship between engineering parameters, and so on. The authors analyze the operation of a differential radio-isotope relay and a three-position relay. A mathematical designing method is given for the operation of a network for the case of controlling the thickness of a material and which permits of finding the minimum activity for the radiation source ensuring the reliable operation of the radio-isotope relay under thickness deviations of the material exceeding the ad-

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S/271/63/000/003/005/049

New types of radio-isotope relays and level indicators A060/A126

missible values. A network is described of a radio-isotope multi-position level-indicator distinguished by the fact that, regardless of the number of positions, it has only two amplifier channels located in a single electron tube. The reduction in the number of amplifier channels became possible through the inclusion in the instrument of a stepping switch operating in the stepper mode. On both sides of the vessel in which the level of the contained medium is being measured at every interval of probable values of the level, radioactive sources and counters are set up opposite to each other. The stepping action of the relays is continued until a difference is discovered in the degree of irradiation of two neighboring receivers. A sharp difference in the degree of irradiation of two adjacent receivers is observed in the case when the level of the filling medium is between these receivers. The difference in the signals causes the operation of the relay connected between the plates of a DC bridge rectifier. There are 5 figures.

A. V.

[Abstracter's note: Complete translation]

Card 2/2

ACC NR: AP7002925

SOURCE CODE: UR/0167/66/000/005/0088/0090

AUTHOR: Borukhov, M. Yu.; Tsoy, T. G.

ORG: Institute of Nuclear Physics, AN UzSSR (Institut yadernoy fiziki <sup>AN</sup> UzSSR)

TITLE: High-reliability radiometers

SOURCE: AN UzSSR. Izvestiya. Seriya tekhnicheskikh nauk, no. 5, 1966, 88-90

TOPIC TAGS: radiometer, radiometry, radiation measurement, ELECTRONIC CIRCUIT

## ABSTRACT:

A radiometer circuit is proposed (see Fig. 1) which consists of Geiger-Muller counters ( $C_2$ ), a transformer (Tr) with two windings ( $W_1$  and  $W_2$ ) on a circular ferrite core, a rectifier (B), an indicator (I), and a power supply.

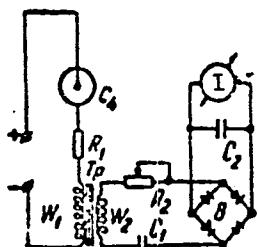


Fig. 1. Proposed radiometer circuit

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UDC: none

ACC NR: AP7002925

Because of the presence of an inductance and a stray capacitance (caused by winding  $W_1$ ) in the circuit of the counters, each gamma-quantum or particle recorded by the counters generates a series of damped oscillations. Amplitudes and frequencies of these oscillations are practically independent of the characteristics of the basic pulse from which they originated and are dependent only on the circuit parameters. The oscillations are transmitted through transformer  $T_r$  to the second measuring section, at the output of which they are rectified and, after being smoothed out by capacitance  $C_2$ , are passed on to the indicator. The second measuring section is tuned in resonance with the first section by capacitor  $C_1$ . An analysis of the proposed radiometer circuit is made. On the basis of this circuit an instrument consisting of 5 STS-5 counters connected in parallel was built with the following characteristics: load resistance ( $R_1$ ), 3.6 milliohm; circular ferrite core:  $d_{\text{outer}} = 31 \text{ mm}$ ,  $d_{\text{inner}} = 18 \text{ mm}$ ,  $h = 7 \text{ mm}$ ,  $W_1 = 6000 \text{ turns}$ ,  $W_2 = 100 \text{ turns}$ ,  $C_1 = 0.25 \mu\text{f}$ ,  $R_2 = 1 \text{ kohm}$ ,  $C_2 = 8 \mu\text{f}$ . Sensitivity of the instrument is  $0.5 \mu\text{amp}/\text{pulse/sec}$ . Orig. art. has: 7 formulas and 3 figures.

[WA-75] [JR]

SUB CODE: 18/ SUBM DATE: 13Apr65/ ATD PRESS: 5115

Card 2/2

KARLENKO, P.N., prof.; GUSEV, L.K., kand.med.nauk; YENIKEYEVA, M.A., kand. med.nauk; OMIROV, R.Yu., aspirant; YUSUPOV, N.A., ordinator; AZAMATOV, N.A., ordinator; TAYTS, N.Yu.; ASRIYANTS, N.G., ordinator; BORUKHOV, S.A., ordinator.

Some results of a study of goiter in Samarkand Province of the Uzbek S.S.R. Med. zhur. Uzb. no.5:17-20 My '61. (MIRA 14:6)

1. Iz kliniki obshchey khirurgii Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova.  
(SAMARKAND PROVINCE—GOITER)

KARLENKO, P.N. (Samarkand, ul. Traktornaya, d.20); ALEKSANDROV, G.N.;  
BORUKHOV, S.A.

Comparative data on the histological structure of the aorta, the  
pulmonary artery and Botallo's duct in fetuses. Grud. khir. 3  
no.1:38-43 Ja-F '61. (MIRA 16:5)

1. Iz kliniki obshchey khirurgii (zav. - prof. P.N.Karlenko) i  
kafedry topograficheskoy anatomii s operativnoy khirurgiyey (zav.  
prof. G.N.Aleksandrov) Samarkandskogo meditsinskogo instituta imeni  
akademika I.P.Pavlova (dir. - dotsent N.A.Mirzamukhamedov).  
(FETAL MEMBRANES) (DUC TUS ARTERIOSUS)

BORUKHOVA, M. S.

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 55<sup>4</sup>

Author: Kheyfets, Ye. M., Milovidova, N. V., Borukhova, M. S., Rapoport, I. B.

Institution: None

Title: Investigation of the Products of Synthesis from CO and H<sub>2</sub> Over Iron Catalysts

Original Publication: Khimiya i tekhnologiya topliva, 1956, No 5, 8-17

Abstract: Description of the results of an investigation of the products of synthesis from CO and H<sub>2</sub> over a Fe-Cu catalyst activated with borax and potash (K-1) and over a Fe catalyst activated with potash (K-2). Syntheses over K-1 and K-2 were conducted, respectively, at a pressure of 10 and 30 atmospheres, at temperatures of 200-250° and ~300°, space velocity of ~80 hour<sup>-1</sup> and ~1,000 hour<sup>-1</sup>, in a pilot-plant and in a semi-production scale unit, with reactors of different holding

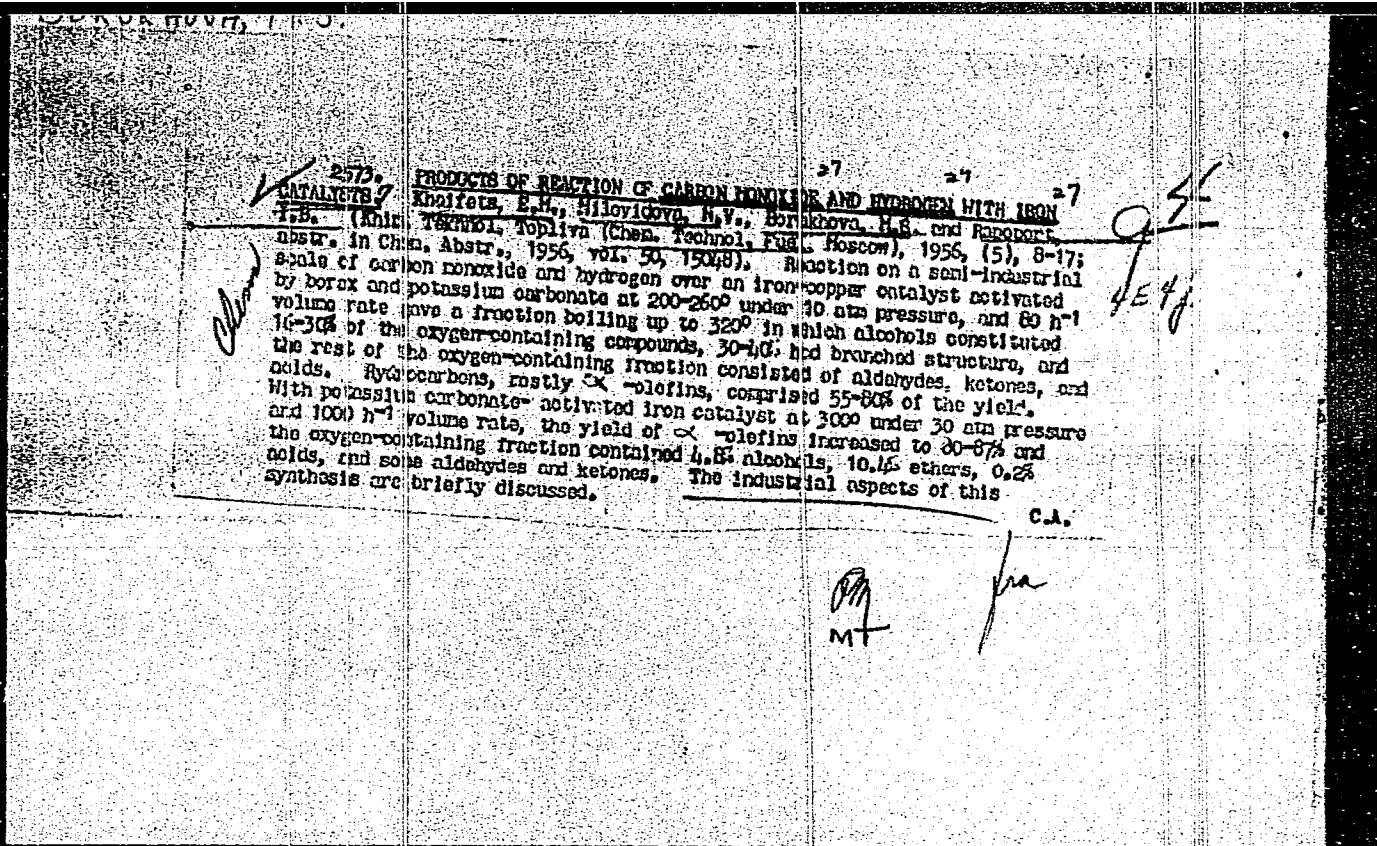
Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants,  
I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5554

Abstract: capacity. It was found that the products obtained on synthesis over an iron base catalyst consist essentially of saturated and unsaturated hydrocarbons (H) of paraffin series, and oxygen-containing (OC) compounds, the saturated H being mostly of normal structure. The iso-branchings per molecule. Among the unsaturated H predominate trans-isomers and alpha-olefins. OC obtained in the synthesis over K-1 consist essentially of alcohols, those obtained over K-2 -- of ethers and alcohols. It is proposed to make provisions, in the system of processing of the products of synthesis from CO and H<sub>2</sub>, for a separation of the alcohols and utilization of unsaturated H for the preparation of detergent agents and other products.

Card 2/2



"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

GORBATYUK, N.V.; BORUKHOVICH, G.Z.; PARKHOMENKO, V.V.; CHASHINOV, A.V.

Rapid method of determining the ash content of coal from  
scattered  $\beta$ -radiation. Zav.lab. 26 no.9:1094-1096 '60.  
(MIRA 13:9)

1. Zavod "Krasnyy metallist".  
(Coal--Analysis)

(Beta rays)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

BORUKHOVSKIY, A.

Bonuses for the introduction of modern technology. Sots. trud no. 8:19-  
53 Ag '56. (MERA 9:10)  
(Machinery industry) (Bonus system)

BORUKHOVSKIY, A.; ZLOKAZOV, Yu.

Abide by the state discipline in the strictest way possible. Sets.  
trud 4 no.1:68-72 Ja '59. (MIRA 12:2)  
(Russia--Economic policy)

BORUKHOVSKIY, A.Sh.

retrograde invagination of the small intestine through a gastro-intestinal anastomosis. Vest.khir. 80 no.1:120-121 Ja '58.

(MIRA 11:4)

1. Iz Katayskoy rayonnoy bol'nitsy Kurganskoy oblasti (glavnyy vrach i rayonnyy khirurg - A.Sh.Borukhovskiy). Adres avtora: Kurganskaya obl. Kataysk, rayonnaya bol'nitsa.

(STOMACH, surgery,

gastroentero-anastomosis, retrograde invagination of small intestine through anastomosis (Rus))

(INTUSSUSCEPTION, case reports,

retrograde invagination of small intestine through gastrointestinal anastomosis (Rus))

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

BORUKHOVSKIY, A.Sh.

Air embolism of the brain in irrigation of the pleural cavity.  
Khirurgia 36 no.1:106-107 Ja '60. (MIRA 13:10)  
(EMBOLISM) (PLEURISY)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

BORUKHOVSKIY, A.Sh.

Elimination fo single-barreled artificial anus. Khimrgiaia  
no.8:118-119 Ag '61. (MIRA 15:5)

1. Iz Katayskoy rayonnoy bol'nitsy (glavnnyy vrach A.I. Novikov)  
Kurganskoy oblasti.  
(COLOSTOMY)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

~~BORUKHSON, Boris Vasil'yevich; SIDOROV, Mikhail Ivanovich; BELYAYEV, N.A.,  
AKHANGERSKIY, S.S., redaktor; MVDVEDEVA, L.A., tekhnicheskij  
redaktor~~

[General technology of flax and linen] Obshchaja tekhnologija l'na.  
Moskva, Gos.nauchno-tekhn. izd-vo Ministerstva tekstil'noi promyshl.  
SSSR, 1956. 177 p. (MLRA 9:8)  
(Linen) (Flax)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

BORUKHSON, Boris Vasil'yevich; SIDOROV, Mikhail Ivanovich;  
SEREDOKHIN, V.N., retsenzent; SOKOLOVA, V.Ye., red.

[General technology of flax] Obshchaya tekhnologiya l'na.  
2. izd. Moskva, Leg'stia industriia, 1964. 254 p.  
(MIRA 17:12)

Borukov, N.I.

MIRONOVICH, Aynbinder Iesif; SHUL'GIN, K.A., red.; BORUKOV, N.I.,  
tekhn.red.

[Problems of the theory and design of ultrashortwave stages  
of radio receivers] Voprosy teorii i rascheta UKV kaskadov  
radioveshatel'nogo priemnika. Moskva, Gos.energ.izd-vo,  
1958. 117 p.  
(Radio, Shortwave--Receivers and reception)

BORUKS, A.Ya.

Conference of land organization workers. Zemledelie 7 no.9:96 S '59.  
(MIRA 12:11)

1. Nachal'nik zemleustroitel'nogo otryada Upravleniya zemleustroystva  
Ministerstva sel'skogo khozyaystva Latviyskoy SSR.  
(Agriculture)

BORUL'NIK, A.K.; DOLMATOV, Ye.G.

Lathe attachments for external work. Stan.1 instr. 27 no.10:35  
0 '56. (MLRA 9:12)

(Lathes--Attachments)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

BORUL'NIK, A.K.; GUMENYUK, N.A.

Special cutting-tool holders for lathes. Stan. i instr. 29 no.12: 36  
D '58. (MIRA 11:12)

(Lathes--Attachments)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

ROZENBERG, Mikhail Yakovlevich; KULIKOV, Fedor Georgiyevich;  
BORULYA, A., red.

[Use of keyboard calculating machines where the journal-voucher accounting system is in operation] Primenenie schetno-klavishnykh mashin pri zhurnal'no-ordernoi forme schetovodstva. Moskva, Finansy, 1965. 83 p.

(MIRA 18:7)

LAVRUSHIN, Oleg Ivanovich; PESSEL', Mark Abramovich; BORULYA, A.,  
red.; LEBEDEV, A., tekhn. red.

[Issuing credit to the light and feed industries] Kreditovanie  
legkoi i pishchevoi promyshlennosti. Moskva, Gosfinizdat, 1962.  
85 p. (MIRA 15:12)  
(Russia—Manufactures—Finance) (Food industry—Finance)

SHEVELEV, Vasiliy Alekseyevich; BORULYA, A., red.; TELEGINA, T.,  
tekhn. red.

[Bank control in industry] Bankovskii kontrol' v pro-  
myshlennosti; iz opyta raboty Leningradskogo otdeleniya  
Gosbanka Moskvy. Moscow, Gosfinizdat, 1962. 73 p.

(MIRA 16:4)

(Moscow--Banks and banking)  
(Moscow--Auditing and inspection)

BORISOV, Stanislav Mikhaylovich; CHIZHOV, K.Ya., otv. red.;  
BORULYA, A., red.; TELEGINA, T., tekhn. red.

[International payments and the foreign exchange-financial contradictions of the West European countries]  
Mezhdunarodnye raschety i valiutno-finansovye protivorechiia stran Zapadnoi Evropy. Moskva, Gosfinizdat, 1963.  
230 p. (MIRA 16:7)  
(Europe, Western--Balance of payments)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9

LENIN, V.I., STEKLOV, V., sostavitel', FOTIYEVA, L., sostavitel', CHERNYSHEV,  
D.I., red.; BORULYA, V.L., red.; VORONIN, K.P., tekhn.red.

[Electrification] Ob elektrifikatsii. [Moskva] Gosenergoizdat,  
1958. 382 p. (MERA 11:9)  
(Electrification)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206530006-9"

GALOCHKIN, M.P.; BORULYA, V.L., red.; VOL'FBERG, D.B., red.; SAVEL'YEV,  
V.I., red.; KORUZEV, N.N., tekhn.red.

[Some problems pertaining to the development of electric power  
engineering in the U.S.A. (1948 to 1957)] Nekotorye voprosy  
razvitiia elektroenergeticheskogo khoziaistva SSSR, 1948-1957 gg.  
Moskva, Gos.energ.iizd-vo, 1959. 82 p. (MIRA 13:3)  
(United States--Power engineering)

STEKLOV, V.Yu.; BORULYA, V.L., red.; BESPROZVANNYY, I.A., red.; BORUNOV,  
N.I., tekhn.red.

[Development of power engineering in the U.S.S.R.; chronological  
history] Razvitiye elektroenergeticheskogo khoziaistva SSSR;  
khronologicheskii ukazatel'. Moskva, Gos.energ.iizd-vo, 1959.  
115 p. / (MIRA 13:2)  
(Power engineering)

BOHULYA, V.L., red.; MATVEYEV, G.I., tekhn.red.

[Using hydraulic methods in earthwork] Gidromekhanizatsiya  
zemlianykh rabot. Moskva, Gos.energ.izd-vo, 1959. 206 p.  
(MIRA 12:4)

1. Nauchno-tehnicheskoye obshchestvo stroitel'noy industriи.  
(Hydraulic engineering) (Earthwork)

NEPOROZHNYY, P.S., red.; STEKLOV, V.Yu., red.; TISTROVA, O.N., red.;  
BORULYA, V.L., red.; BORUNOV, N.I., tekhn. red.

[Let us electrify Russia; collection of memoirs of the members of the State Commission for the Electrification of Russia and the first builders of electric power stations] Sdelaem Rossiu elektricheskoi; sbornik vospominanii uchastnikov Komissii GOELRO i stroitelei pervykh elektrostantsii. Moskva, Gos. energ.iad-vo, 1961. 381 p.  
(MIRA 14:12)

(Electrification)

BORULYA, Viktor L'vovich; BUBENSHCHIKOV, S., red.; DANILINA, A.,  
tekhn. red.

[Advantage of electrification] Plius elektrifikatsiia.  
Moskva, Politizdat, 1963. 91 p. (MIRA 16:12)  
(Electrification)

GEYER, V.G., prof.; BORIMENSKIY, A.G., dotsent; HELIKOV, P.F., inzh.;  
TIMOSHENKO, G.I., inzh.

Automatizing pumping stations for hydraulic mining. Nauch. dokl.  
(MIRA 11:6)  
vys. shkoly; gor. dele no.1:139-145 '58.

1.Predstavlena kafedroy gornoj mekhaniki Donetskogo industrial'nogo  
instituta.  
(Excavating machinery--Electric driving)

BORUMENSKIY, A.G., dots.; ZARYA, A.N., insh.

Apparatus for the automatic control of coal suction plants in  
hydraulic mines. Ugol' Ukr. 3 no.11:38-40 N '59.  
(MIRA 13:3)

I.Donetskiy industrial'nyy institut.  
(Hydraulic mining) (Automatic control)

BORUMENSKIY, A : G.

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PHASE I BOOK EXPLOITATION

SOV/5473

Gornoye delo; entsiklopedicheskiy spravochnik. t. 8: Statsionarnoye elektromekhanicheskoye oborudovaniye. Elektrosnabzheniye shakht (Mining Industry; an Encyclopedic Handbook. v. 8: Stationary Electro-mechanical Equipment. Electric Power Supply to Mines) Moscow, Gosgortekhizdat, 1960. 784 p. Errata slip inserted. 18,500 copies printed.

Chief Ed.: A. M. Terpigorev (Deceased); Members of the Editorial Board: A. I. Baranov, F. A. Barabanov (Deceased), A. A. Boyko, V. K. Buchnev, A. N. Zaytsev; Deputy Chief Eds: I. K. Kit and N. V. Mel'nikov; I. N. Plaksin, N. M. Pokrovskiy, A. A. Skochinskiy (Deceased), A. O. Spivakovskiy, I. K. Stanchenko, A. P. Sudoplatov, A. V. Topchiyev, S. V. Troyanskiy, A. K. Kharchenko, L. D. Shevyakov and M. A. Shchedrin; Editorial Board for this volume: Resp. Ed.: F. A. Barabanov; Deputy Resp. Ed.: Z. M. Melamed; N. A. Arzamasov, G. M. Yelanchik, V. K. Yefremov, B. I. Zasadych, I. M. Zhumakhov, N. A. Letov, P. P. Nesterov, I. A. Rabinovich, K. I. Skorkin, and V. A. Sumchenko; Authors: G. A.

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Mining Industry (Cont.)

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Babak, Candidate of Technical Sciences, V. D. Belyy, Professor,  
Doctor of Technical Sciences, K. S. Borisenko, Candidate of Technical  
Sciences, A. G. Borumenskiy, Candidate of Technical Sciences, I. V.  
Brusilovskiy, Candidate of Technical Sciences, A. R. Bushel', Candi-  
date of Technical Sciences, V. P. Bukhgol'ts, Engineer, M. N. Vasilevskiy,  
Candidate of Technical Sciences, A. N. Vas'kovskiy, Engineer, B. N.  
Vlasenko, Engineer, I. Ya. Gershikov, Engineer, V. G. Geyer, Professor,  
Doctor of Technical Sciences, A. D. Dimashko, Engineer, V. S. Dulin,  
Candidate of Technical Sciences, I. L. Lokshin, Engineer, B. M. Melamed,  
Engineer, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, M. I.  
Mushkatin, Engineer, V. S. P-ik, Academician, I. M. Perskaya, Engineer,  
N. M. Rusanov, Candidate of Technical Sciences, G. P. Savel'yev, Candi-  
date of Technical Sciences, Ya. M. Smorodinsky, Candidate of Technical  
Sciences, K. A. Ushakov, Honored Scientist and Technologist, Professor,  
Doctor of Technical Sciences, B. M. Furmanov, Engineer; and N. N. Cheren-  
navkin, Engineer. Eds.: Ya. M. Drozdov, Engineer, B. I. Zasadych,

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Mining Industry (Cont.)

SOV/5473

Candidate of Technical Sciences, N. S. Karpyshев, Candidate of Technical Sciences, N. A. Letov, Candidate of Technical Sciences, Z. M. Melamed, Candidate of Technical Sciences, Yu. A. Mikheyev, Engineer, V. P. Morozov, Engineer, V. I. Polikovskiy, Professor, Doctor of Technical Sciences, I. A. Rabinovich, Engineer, M. S. Rabinovich, Candidate of Technical Sciences, I. A. Raskin, Engineer, V. S. Tulin, Engineer, S. Ye. Unigovskiy, Engineer, K. A. Ushakov, Honored Scientist and Technologist, Professor, Doctor of Technical Sciences, M. M. Shemakhanov, Candidate of Technical Sciences, P. F. Shishkov, Candidate of Technical Sciences, and V. B. Yablonovskiy, Engineer; Eds. of Publishing House: N. A. Arzamasov and T. I. Rybal'nik; Tech. Ed.: V. L. Prozorovskaya and M. A. Kondrat'yeva.

PURPOSE: This handbook is intended for mining and mechanical engineers as well as for other skilled personnel of the mining industry concerned with the handling and operation of various installations and equipment used in mines.

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COVERAGE: Volume VIII of the mining handbook contains detailed information on mine hoisting installations, machines and equipment, mine ventilation units, duct systems, dewatering facilities, various types of pumps, pump meters, pumping stations, and the automatic remote control of these units. The handbook also describes and explains the operation of the air compression units and compressors. Heat-generating and heat-supply equipment of mines is described, as are the electric power supply systems and other electrical equipment such as transformers, power distribution systems, and grounding devices. Telephone communication and signaling systems used in mines are also treated. No personalities are mentioned. Each part of the handbook is accompanied by references, mostly Soviet.

TABLE OF CONTENTS ( Abridged ):

PART I. MINE HOISTING UNITS

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(K. S. Borisenko, and A. G. Borumenskiy,  
Candidates of Technical Sciences)

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BORISENKO, Konstantin Stepanovich; BORUMENSKIY, Aleksandr Grigor'yevich,  
dots.; DULIN, Vladimir Sergeyevich, dotsent; RUSANOV, Nikolay  
Mikhaylovich, dotsent; PLOTNIKOV, K.S., otv. red.; D'YAKOVA,  
G.B., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.; BOLDIREVA,  
Z.A., tekhn. red.

[Mining mechanics] Gornaia mekhanika. [By] K.S. Borisenko i dr. Mo-  
skva, Gosgortekhizdat, 1962. 406 p. (MIRA 15:10)

1. Chlen-korrespondent Akademii nauk Ukrainskoy SSR (for  
Borisenko).

(Mining machinery)

KOVAL', Petr Vasil'yevich; AL'SHITS, Ya.I., doktor tekhn. nauk,  
retsenzent; BORUMENSKIY, A.G., kand. tekhn. nauk,  
retsenzent; PONOMARENKO, Yu.F., kand. tekhn. nauk, otv.  
red.; BELOV, V.S., red.izd-va; LAVRENT'YEVA, L.G., tekhn.  
red.

[Hydraulic drive of mining machinery] Gidroprivod gornykh  
mashin. Moskva, Izd-vo "Nedra," 1964. 203 p.  
(MIRA 17:3)

BORIN, F. L.

## PHASE I BOOK EXPLOITATION

SOV/2383

Akademiya nauk SSSR. Komissiya po tekhnologii mashinotroystvovatel'noy avtomatizatsii mashinotroystvuyushchim professorom. t. II. Privod-1 upravleniye rabochimi mashinami (Automation of Machine-building Processes). Vol. 2. Drives and Control Systems for Process Machinery) Moscow, Izd-vo AN SSSR, 1959. 370 p. Errata slip inserted. 5,000 copies printed.

Ed.: V.I. Dikushin, Academician. Ed. of Publishing House: D.N. Ioffe; Tech. Ed.: I.P. Kuz'min.

PURPOSE: This book is intended for engineers dealing with automation of various machine-building processes.

COVERAGE: This is the second volume of transactions of the second Conference on Overall Mechanization and Automation of Manufacturing Processes held September 25-29, 1956. The present volume consists of three parts, the first dealing with automation of engineering measuring methods. The subjects discussed include automatic control of dimensions of machined parts, inspection methods for automatic production lines, in-process inspection devices, application of electronics in automating linear measuring processes, and machines for automatic inspection of bearing races. The second part deals with automatic drives and control systems for process machinery, including application of digital computers in the control of metal-cutting machine tools, reliability of relay systems, application of gas-tube frequency converters in the control of induction motor speed, magnetic amplifiers and their use in automatic systems, hydraulic drives and ultrasonic vibrators. Part three deals with mechanisms of various machines and automatic production lines. The subjects discussed include linkage, indexing, and Geneva-wheel-type mechanisms, friction drives, automatic loading devices, diaphragm-type pneumatic drives, various auxiliary devices for automatic production lines, and methods of design and accuracy of cams. No personalities are mentioned. There are no references.

Mikhaylov, M. G. Dynamics and Type of Generalized Mechanisms

Shekhter, E. L. Study of Indexing Mechanisms for Tables and Drums of Automatic Machines

Cherdinov, S. A. Linkage Mechanisms or Heavy-duty Drawing Presses

Savchenko, O. A. Controlled Prismatic Drives Made by TANITMASH

Troev, V. P. Some Problems in the Theory of Loading and Positioning Devices

Medved', N. V. Automatic Feeding of Piece Stock Into Working Machines

Kanshuly, M. I. Vibratory Loaders for Machine Tools

Bibbant, P. I. Experience Gained by the Altayzavod (Zenit) Likhacheva in Developing Standard Mechanisms for Automating Auxiliary Operations in Metal-cutting Machine Tools

Geras', Ye. V. Designing Diaphragm-type Pneumatic Drives

Borin, I. S. Standard Auxiliary Devices for Automatic Lines

Borin, V. I. Problems of Profile Design and Cam Accuracy for Process Machinery in Vacuum Tube Industry